

**MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY  
TITLE V OPERATING PERMIT TECHNICAL REVIEW DOCUMENT**

**Permitting and Compliance Division  
Air and Waste Management Bureau  
1520 E. Sixth Avenue  
P.O. Box 200901  
Helena, Montana 59620-0901**

**ConocoPhillips Company  
Great Falls Product Terminal  
1401 52nd Street North  
NW¼, Section 3, T20N, R4E  
Great Falls, Cascade County, Montana**

The following table summarizes the air quality programs testing, monitoring, and reporting requirements applicable to this facility.

Facility Compliance Requirements	Yes	No	Comments
Source Tests Required		X	
Ambient Monitoring Required		X	
COMS Required		X	
CEMS Required		X	
Schedule of Compliance Required		X	
Annual Compliance Certification and Semiannual Reporting Required	X		
Monthly Reporting Required	X		
Quarterly Reporting Required		X	
<b>Applicable Air Quality Programs</b>			
ARM Subchapter 7 Preconstruction Permitting	X		#2946-01
New Source Performance Standards (NSPS)		X	
National Emission Standards for Hazardous Air Pollutants (NESHAPS)		X	
Maximum Achievable Control Technology (MACT)	X		Synthetic minor from Subpart R
Major New Source Review (NSR)		X	
Prevention of Significant Deterioration (PSD)		X	
Risk Management Plan Required (RMP)		X	
Acid Rain Title IV		X	
State Implementation Plan (SIP)		X	

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## **I. GENERAL INFORMATION**

### **A. Purpose**

This document establishes the basis for the decisions made regarding the applicable requirements, monitoring plan, and compliance status of emissions units affected by the operating permit proposed for this facility. The document is intended for reference during review of the proposed permit by the EPA and the public. It is also intended to provide background information not included in the operating permit and to document issues that may become important during modifications or renewals of the permit. Conclusions in this document are based on information provided in the original application submitted by Conoco Inc. (Conoco) on June 10, 1996.

### **B. Facility Location**

ConocoPhillips owns and operates the Great Falls Product Terminal. This facility is located in the NW¼ of Section 3, Township 20 North, Range 4 East in Cascade County, Montana. Cascade County is designated as an Unclassifiable/Attainment area for National Ambient Air Quality Standards (NAAQS) for all criteria pollutants. The Great Falls Product Terminal is located just east of the Great Falls city limits at the intersection of Highway 87 and 52nd Street. The facility is surrounded by a meat packing plant on the north, a construction company and a few residences to the west, a distribution company on the south and a field and fertilizer plant northeast and northwest, respectively. There are no schools, medical facilities, or recreational areas in the immediate vicinity of the terminal.

### **C. Facility Background Information**

On October 9, 1997, Permit #2946-00 was issued to Conoco to exempt them from 40 CFR 63, Subpart R applicability. Conoco's Great Falls bulk terminal was not required to obtain an air quality permit because this facility was constructed prior to November 23, 1968; however, Conoco requested a throughput limit on the facility to keep them below the 40 CFR 63, Subpart R applicability threshold.

The Great Falls Product Terminal tanks were installed in 1960. Because the tanks were installed in 1960, the facility was grandfathered from the Montana Air Quality permit process. On August 19, 1997, ConocoPhillips submitted an application for the Great Falls Product Terminal to obtain a Montana Air Quality permit containing an operational limit. The operational limit allowed ConocoPhillips to stay below the threshold value for the 40 CFR 63 Subpart R requirements. Permit #OP2946-00 was issued final on October 9, 1997.

### **D. Current Permit Action**

On February 21, 2003, the Department received a request from ConocoPhillips Company (ConocoPhillips) for a modification to Permit #OP2946-00. The modification is an administrative amendment, which changes the company name from Conoco, to ConocoPhillips. Permit #OP2946-01 replaces Permit #OP2946-00.

**E. Taking and Damaging Analysis**

HB 311, the Montana Private Property Assessment Act, requires analysis of every proposed state agency administrative rule, policy, permit condition or permit denial, pertaining to an environmental matter, to determine whether the state action constitutes a taking or damaging of private real property that requires compensation under the Montana or U.S. Constitution. As part of issuing an operating permit, the Department is required to complete a Taking and Damaging Checklist. The checklist was completed on July 6, 1998.

**F. Compliance Designation**

The ConocoPhillips Great Falls Product Terminal was inspected by the Department on August 26, 1997. The inspection findings and all the material reviewed in the Department's files indicate that the facility is in compliance.

## **II. SUMMARY OF EMISSION UNITS**

### **A. Facility Process Description**

ConocoPhillips operates a bulk gasoline terminal at the Great Falls Product Terminal. The terminal stores and transfers petroleum products (gasoline and distillate) received from the pipeline and distributes them to regional markets via tank trucks. The Standard Industrial Classification (SIC) for this facility is "Wholesale Distribution" which has an SIC Code of "5171".

### **B. Emission Units and Pollution Control Device Identification**

Currently, the Great Falls Product Terminal operates a truck loading rack and six tanks. Tank #90, Tank #91, and Tank #94 contain RVP 11.5 gasoline with external floating roofs. Tank #92 and Tank #93 contain jet kerosene and Tank #95 contains off spec product and all are equipped with vertical fixed roof. Fugitive emissions include valves, flanges, pump seals, open-ended lines, etc. and are required to be inspected each calendar month.

### **C. Categorically Insignificant Sources/Activities**

The Administrative Rules of Montana (ARM) 17.8.1201(22)(a) defines an insignificant emissions unit as one that emits less than 5 tons per year of any regulated pollutant, has the potential to emit less than 500 pounds per year of lead or any hazardous air pollutant, and is not regulated by an applicable requirement other than a generally applicable requirement.

The miscellaneous emissions from the ConocoPhillips Product Terminal include emissions from tank cleaning; additive tanks emissions, and meter proving, etc. These units are insignificant because they emit less than 5 tons per year of any regulated pollutant.

### **III. PERMIT CONDITIONS**

#### **A. EMISSION LIMITS AND STANDARDS**

The ConocoPhillips Great Falls Product Terminal is limited to a maximum of 88,200,000 gallons of gasoline and 88,200,000 gallons of distillate product throughput for the truck loadout operation during any 12-month rolling period. ConocoPhillips is also required to conduct monthly leak checks for the fugitive emissions. Detection methods incorporating sight, sound, or smell are acceptable for the purposes of these inspections. The emissions units at this facility are not subject to the 40 CFR 63, Subpart R MACT requirements because they have accepted an operational limit that keeps them below the threshold value. The emission units at the facility are not required to meet any NESHAP or NSPS standards. This facility is not subject to PSD regulations.

#### **B. Monitoring Requirements**

ARM 17.8.1212(1) requires that all monitoring and analysis procedures or test methods required by any applicable requirement to be contained in the operating permit. In addition, when the applicable requirement does not require periodic testing or monitoring, periodic monitoring must be prescribed that is sufficient to yield reliable data from the relevant time period that is representative of the source's compliance with the permit.

The requirement for testing, monitoring, recordkeeping, reporting, and compliance certification sufficient to assure compliance does not require the permit to impose the same level of rigor for all emissions units. Furthermore, it does not require extensive testing or monitoring to assure compliance with the applicable requirements for emissions units that do not have significant potential to violate emission limitations or other requirements under normal operating conditions. When compliance with the underlying applicable requirement for an insignificant emissions unit is not threatened by lack of regular monitoring and when periodic testing or monitoring is not otherwise required by the applicable requirement, the status quo (i.e., no monitoring) will meet the requirements of ARM 17.8.1212(1). Therefore, the permit does not include monitoring and/or recordkeeping for all generally applicable requirements such as ARM 17.8.304, 324, and 749.

The Department may request additional testing to determine compliance with the emission limits and standards. If it is determined through testing, using test methods identified in the Montana Source Testing Protocol, that any emissions unit is out of compliance with any applicable requirement, ConocoPhillips will not be shielded from an enforcement action even if the required monitoring methods listed in the permit indicate compliance with the applicable requirement.

ConocoPhillips is required to log the throughput of gasoline and distillate products through the loadout operations and submit a semi-annual report verifying compliance with the production limits. The report of throughput will be used to assure compliance with the limitation in this permit. Tank #90, tank #91, and tank #94 must operate a vapor loss control device and shall be annually inspected to verify the operation's compliance with the ARM 17.8.324 conditions. The recordkeeping requirements that must be kept during leak inspections on the fugitive source should demonstrate compliance with the ARM 17.8.749 conditions. Likewise, the threat of exceeding the fugitive particulate limitation is unlikely; therefore, there are no recordkeeping requirements for this requirement in this permit.

**C. Test Methods and Procedures**

Montana Air Quality Permit #2946-01 does not require any testing and Permit #OP2946-01 will not require any testing to monitor compliance with this permit. However, the Department has the authority to require testing if deemed necessary to determine compliance with an emission limit or standard. In addition, the permittee may elect to voluntarily conduct compliance testing to confirm compliance status.

**D. Recordkeeping Requirements**

The recordkeeping provisions shall be sufficient to meet the provisions of the requirements of Permit #OP2946-01. Retention of the records of all required recordkeeping data and support information shall be for a period of at least five years from the date of measurement. Support information includes: all log books and original recordings for the continuous recordkeeping requirements, and copies of all reports required by the operating permit.

**E. Reporting Requirements**

The permittee is required to submit to the Department reports of any required monitoring at least every 6 months and to annually certify compliance with the applicable requirements contained in the permit. All deviations from permit requirements must be clearly identified in these reports. All reports must be certified by the responsible official. The permittee is also required to promptly report any deviations from the permit requirements due to upset conditions and the probable cause of the upset condition along with any corrective actions or preventive measures taken.

#### IV. NON-APPLICABLE REQUIREMENTS ANALYSIS

Section IV of the operating permit "Non-applicable Requirements" contains the requirements that the Department determined were non-applicable. The following table summarizes the requirements that ConocoPhillips identified as non-applicable and contains the reasons that the Department did not include these requirements as non-applicable in the permit.

##### Requirement not Identified in the Operating Permit

Applicable Requirement	Reason
ARM 17.8.601 ARM 17.8.602 ARM 17.8.1201(10)(a) ARM 17.8.1201(10)(b) ARM 17.8.1201(10)(f) ARM 17.8.1201(10)(i) ARM 17.8.1201(10)(k)	This is either a statement of purpose, applicability statement, regulatory definitions, or a statement of incorporation by reference. These types of rules do not have specific requirements associated with them.
ARM 17.8.604 ARM 17.8.605 ARM 17.8.606 ARM 17.8.611 ARM 17.8.612 ARM 17.8.613 ARM 17.8.614 ARM 17.8.615	These are procedural rules that have specific requirements that may become relevant to a major source during the permit term.



#### **IV. FUTURE PERMIT CONSIDERATIONS**

##### **A. MACT Standards**

As of the issuance date of Permit #OP2946-01, ConocoPhillips has an operational limit that synthetic minors them from the requirements of 40 CFR 63, Subpart R and the Department is unaware of any other future MACT Standards that may be promulgated that will effect this facility.

##### **B. NESHAP Standards**

As of the issuance date of Permit #OP2946-01, the Department is unaware of any future NESHAP Standards that may be promulgated that will affect this facility.

##### **C. NSPS Standards**

As of the issuance date of Permit #OP2946-01, the Department is unaware of any future NSPS Standards that may be promulgated that will affect this facility.

##### **D. Risk Management Plan**

As of the issuance date of Permit #OP2946-01, this facility does not have any substance listed in 40 CFR 68.115 or 40 CFR 68.130, which exceeds the minimum threshold quantities. This facility is not required to submit a Risk Management Plan at this time.

If a facility has more than a threshold quantity of a regulated substance in a process, the facility must comply with 40 CFR 68 requirements no later than June 21, 1999; three years after the date on which a regulated substance is first listed under 40 CFR 68.130; or the date on which a regulated substance is first present in more than a threshold quantity in a process, whichever is later.